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|              |   |        |   |
|--------------|---|--------|---|
| NEWS         | 1   |        | Web Page for STN Seminar Schedule - N. America  |
| NEWS         | 2   | JAN 02 | STN pricing information for 2008 now available  |
| NEWS         | 3   | JAN 16 | CAS patent coverage enhanced to include exemplified prophetic substances              |
| NEWS         | 4   | JAN 28 | USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats          |
| NEWS         | 5   | JAN 28 | MARPAT searching enhanced   |
| NEWS         | 6   | JAN 28 | USGENE now provides USPTO sequence data within 3 days of publication                  |
| NEWS         | 7   | JAN 28 | TOXCENTER enhanced with reloaded MEDLINE segment                                      |
| NEWS         | 8   | JAN 28 | MEDLINE and LMEDLINE reloaded with enhancements                                       |
| NEWS         | 9   | FEB 08 | STN Express, Version 8.3, now available   |
| NEWS         | 10  | FEB 20 | PCI now available as a replacement to DPCI  |
| NEWS         | 11  | FEB 25 | IFIREF reloaded with enhancements   |
| NEWS         | 12  | FEB 25 | IMSPRODUCT reloaded with enhancements   |
| NEWS         | 13  | FEB 29 | WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification |
| NEWS         | 14  | MAR 31 | IFICDB, IFIPAT, and IFIUDB enhanced with new custom IPC display formats               |
| NEWS         | 15  | MAR 31 | CAS REGISTRY enhanced with additional experimental spectra                            |
| NEWS         | 16  | MAR 31 | CA/CAPLUS and CASREACT patent number format for U.S. applications updated             |
| NEWS         | 17  | MAR 31 | LPCI now available as a replacement to LDPCI  |
| NEWS         | 18  | MAR 31 | EMBASE, EMBAL, and LEMBASE reloaded with enhancements                                 |
| NEWS         | 19  | APR 04 | STN AnaVist, Version 1, to be discontinued  |
| NEWS         | 20  | APR 15 | WPIDS, WPINDEX, and WPIX enhanced with new predefined hit display formats             |
| NEWS         | 21  | APR 28 | EMBASE Controlled Term thesaurus enhanced   |
| NEWS         | 22  | APR 28 | IMSRESEARCH reloaded with enhancements  |
|              |   |        |   |
| NEWS EXPRESS | FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,<br>AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008 |        |   |
|              |   |        |   |
| NEWS HOURS   | STN Operating Hours Plus Help Desk Availability   |        |   |
| NEWS LOGIN   | Welcome Banner and News Items   |        |   |
| NEWS IPC8    | For general information regarding STN implementation of IPC 8                                       |        |   |

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 08:20:25 ON 17 MAY 2008

|  |            |         |
|--|------------|---------|
| => file medline, biosis, wpids, uspatful, dgene, embase, biotechds |            |         |
| COST IN U.S. DOLLARS   | SINCE FILE | TOTAL   |
|  | ENTRY      | SESSION |
| FULL ESTIMATED COST  | 0.42       | 0.42    |

FILE 'MEDLINE' ENTERED AT 08:21:20 ON 17 MAY 2008

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FILE 'USPATFULL' ENTERED AT 08:21:20 ON 17 MAY 2008  
CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'DGENE' ENTERED AT 08:21:20 ON 17 MAY 2008  
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FILE 'BIOTECHDS' ENTERED AT 08:21:20 ON 17 MAY 2008  
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=> s protein dimierization  
L1 0 PROTEIN DIMIERIZATION

=> s (method) and (protein dimerization)  
5 FILES SEARCHED...  
L2 427 (METHOD) AND (PROTEIN DIMERIZATION)

=> s l2 and (fusion)  
L3 266 L2 AND (FUSION)

=> s l3 and (methotrexate and ligand)  
L4 101 L3 AND (METHOTREXATE AND LIGAND)

=> s l4 and (methotrexate-LexA)  
L5 0 L4 AND (METHOTREXATE-LEXA)

=> s l4 and covalent bond  
L6 27 L4 AND COVALENT BOND

=> s l6 and (dihydrofolate)  
L7 16 L6 AND (DIHYDROFOLATE)

=> d l7 ti abs ibib tot

L7 ANSWER 1 OF 16 USPATFULL on STN  
TI Binding constructs and methods for use thereof  
AB The invention relates to novel binding domain-immunoglobulin  
fusion proteins that feature a binding domain for a cognate  
structure such as an antigen, a counterreceptor or the like, a wild-type  
IgG, IGA or IgE hinge-acting region, i.e., IgE CH2, region polypeptide

or a mutant IgGI hinge region polypeptide having either zero, one or two cysteine residues, and immunoglobulin CH2 and CH3 domains, and that are capable of ADCC and/or CDC while occurring predominantly as polypeptides that are compromised in their ability to form disulfide-linked multimers. The fusion proteins can be recombinantly produced at high expression levels. Also provided are related compositions and methods, including cell surface forms of the fusion proteins and immunotherapeutic applications of the fusion proteins and of polynucleotides encoding such fusion proteins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2007:271553 USPATFULL  
 TITLE: Binding constructs and methods for use thereof  
 INVENTOR(S): Ledbetter, Jeffrey A., Shoreline, WA, UNITED STATES  
 Hayden-Ledbetter, Martha Susan, Shoreline, WA, UNITED STATES  
 Thompson, Peter Armstrong, Bellevue, WA, UNITED STATES

|                     | NUMBER          | KIND | DATE                  |
|---------------------|-----------------|------|-----------------------|
| PATENT INFORMATION: | US 2007237779   | A1   | 20071011              |
| APPLICATION INFO.:  | US 2003-566409  | A1   | 20031224 (10)         |
|                     | WO 2003-US41600 |      | 20031224              |
|                     |                 |      | 20060824 PCT 371 date |

|                       | NUMBER   | DATE     |
|-----------------------|--|----------|
| PRIORITY INFORMATION: | US 2003-10627556   | 20030726 |
| DOCUMENT TYPE:        | Utility  |          |
| FILE SEGMENT:         | APPLICATION  |          |
| LEGAL REPRESENTATIVE: | MARSHALL, GERSTEIN & BORUN LLP, 233 S. WACKER DRIVE, SUITE 6300, SEARS TOWER, CHICAGO, IL, 60606, US |          |
| NUMBER OF CLAIMS:     | 413  |          |
| EXEMPLARY CLAIM:      | 1  |          |
| NUMBER OF DRAWINGS:   | 88 Drawing Page(s)   |          |
| LINE COUNT:           | 20337  |          |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 2 OF 16 USPATFULL on STN  
 TI Immunoglobulin chimeric monomer-dimer hybrids  
 AB The invention relates to a chimeric monomer-dimer hybrid protein wherein said protein comprises a first and a second polypeptide chain, said first polypeptide chain comprising at least a portion of an immunoglobulin constant region and a biologically active molecule, and said second polypeptide chain comprising at least a portion of an immunoglobulin constant region without the biologically active molecule of the first chain. The invention also relates to methods of using and methods of making the chimeric monomer-dimer hybrid protein of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2007:197585 USPATFULL  
 TITLE: Immunoglobulin chimeric monomer-dimer hybrids  
 INVENTOR(S): Peters, Robert T., West Roxbury, MA, UNITED STATES  
 Mezo, Adam R., Waltham, MA, UNITED STATES  
 Rivera, Daniel S., Providence, RI, UNITED STATES  
 Bitonti, Alan J., Acton, MA, UNITED STATES  
 Low, Susan C., Pepperell, MA, UNITED STATES  
 PATENT ASSIGNEE(S): Syntonix Pharmaceuticals, Inc. (U.S. corporation)

| NUMBER | KIND | DATE |
|--------|------|------|
|--------|------|------|

PATENT INFORMATION: US 2007172928 A1 20070726  
 APPLICATION INFO.: US 2006-588431 A1 20061027 (11)  
 RELATED APPLN. INFO.: Continuation of Ser. No. US 2004-841250, filed on 6 May 2004, PENDING

|  | NUMBER  | DATE          |
|--|---|---------------|
| PRIORITY INFORMATION:                      | US 2003-469600P   | 20030506 (60) |
|  | US 2003-487964P   | 20030717 (60) |
|  | US 2004-539207P   | 20040126 (60) |
| DOCUMENT TYPE:                             | Utility   |               |
| FILE SEGMENT:                              | APPLICATION   |               |
| LEGAL REPRESENTATIVE:                      | FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP,<br>901 NEW YORK AVENUE, NW, WASHINGTON, DC, 20001-4413, US |               |
| NUMBER OF CLAIMS:                          | 2   |               |
| EXEMPLARY CLAIM:                           | 1-197   |               |
| NUMBER OF DRAWINGS:                        | 27 Drawing Page(s)  |               |
| LINE COUNT:                                | 5222  |               |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. |   |               |

L7 ANSWER 3 OF 16 USPATFULL on STN  
 TI Cell proliferation-related polypeptides and uses therefor  
 AB Disclosed are proteins, and nucleic acids encoding such proteins,  
 involved in or associated with cell proliferation, senescence,  
 differentiation, development, and stress response in plants. Also  
 disclosed are uses for such proteins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 ACCESSION NUMBER: 2006:296744 USPATFULL  
 TITLE: Cell proliferation-related polypeptides and uses  
 therefor  
 INVENTOR(S): Cooper, Bret, 9339 Creekview Drive, Laurel, MD, UNITED  
 STATES 20708

|                     | NUMBER          | KIND | DATE                  |
|---------------------|-----------------|------|-----------------------|
| PATENT INFORMATION: | US 2006253917   | A1   | 20061109              |
| APPLICATION INFO.:  | US 2003-533232  | A1   | 20031223 (10)         |
|                     | WO 2003-US41200 |      | 20031223              |
|                     |                 |      | 20051122 PCT 371 date |

|  | NUMBER   | DATE          |
|--|--|---------------|
| PRIORITY INFORMATION:                      | US 2002-436565P  | 20021226 (60) |
| DOCUMENT TYPE:                             | Utility  |               |
| FILE SEGMENT:                              | APPLICATION  |               |
| LEGAL REPRESENTATIVE:                      | JENKINS, WILSON, TAYLOR & HUNT, P. A., 3100 TOWER BLVD,<br>SUITE 1200, DURHAM, NC, 27707, US |               |
| NUMBER OF CLAIMS:                          | 58   |               |
| EXEMPLARY CLAIM:                           | 1  |               |
| NUMBER OF DRAWINGS:                        | 16 Drawing Page(s)   |               |
| LINE COUNT:                                | 12776  |               |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. |  |               |

L7 ANSWER 4 OF 16 USPATFULL on STN  
 TI Stress-related polypeptides and uses therefor  
 AB Disclosed are proteins, and nucleic acids encoding such proteins,  
 involved in or associated with the stress response (both biotic and  
 abiotic stress) in plants. Also disclosed are uses for such proteins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2006:275417 USPATFULL  
TITLE: Stress-related polypeptides and uses therefor  
INVENTOR(S): Cooper, Bret, Laurel, CA, UNITED STATES

|                     | NUMBER          | KIND | DATE                  |
|---------------------|-----------------|------|-----------------------|
| PATENT INFORMATION: | US 2006235215   | A1   | 20061019              |
| APPLICATION INFO.:  | US 2003-533176  | A1   | 20031223 (10)         |
|                     | WO 2003-US41098 |      | 20031223              |
|                     |                 |      | 20060412 PCT 371 date |

|                       | NUMBER   | DATE          |
|-----------------------|--|---------------|
| PRIORITY INFORMATION: | US 2002-436564P  | 20021226 (60) |
| DOCUMENT TYPE:        | Utility  |               |
| FILE SEGMENT:         | APPLICATION  |               |
| LEGAL REPRESENTATIVE: | JENKINS, WILSON, TAYLOR & HUNT, P. A., 3100 TOWER BLVD,<br>SUITE 1200, DURHAM, NC, 27707, US |               |
| NUMBER OF CLAIMS:     | 46   |               |
| EXEMPLARY CLAIM:      | 1  |               |
| NUMBER OF DRAWINGS:   | 3 Drawing Page(s)  |               |
| LINE COUNT:           | 8854   |               |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 5 OF 16 USPATFULL on STN

TI Immunoglobulin chimeric monomer-dimer hybrids  
AB The invention relates to a chimeric monomer-dimer hybrid protein wherein said protein comprises a first and a second polypeptide chain, said first polypeptide chain comprising at least a portion of an immunoglobulin constant region and a biologically active molecule, and said second polypeptide chain comprising at least a portion of an immunoglobulin constant region without the biologically active molecule of the first chain. The invention also relates to methods of using and methods of making the chimeric monomer-dimer hybrid protein of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:298530 USPATFULL  
TITLE: Immunoglobulin chimeric monomer-dimer hybrids  
INVENTOR(S): Peters, Robert T., West Roxbury, MA, UNITED STATES  
Mezo, Adam R., Waltham, MA, UNITED STATES  
Rivera, Daniel S., Providence, RI, UNITED STATES  
Bitonti, Alan J., Acton, MA, UNITED STATES  
Low, Susan C., Pepperell, MA, UNITED STATES  
Stattel, James, Leominster, MA, UNITED STATES

|                       | NUMBER  | KIND | DATE          |
|-----------------------|---|------|---------------|
| PATENT INFORMATION:   | US 2005260194   | A1   | 20051124      |
|                       | US 7348004  | B2   | 20080325      |
| APPLICATION INFO.:    | US 2005-29003   | A1   | 20050105 (11) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 2004-841250, filed on 6 May 2004, PENDING |      |               |

|                       | NUMBER          | DATE          |
|-----------------------|-----------------|---------------|
| PRIORITY INFORMATION: | US 2003-469600P | 20030506 (60) |
|                       | US 2003-487964P | 20030717 (60) |
|                       | US 2004-539207P | 20040126 (60) |
| DOCUMENT TYPE:        | Utility         |               |

FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP,  
901 NEW YORK AVENUE, NW, WASHINGTON, DC, 20001-4413, US  
NUMBER OF CLAIMS: 131  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 27 Drawing Page(s)  
LINE COUNT: 5395  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 6 OF 16 USPATFULL on STN

TI Bacterial small-molecule three-hybrid system  
AB A transgenic bacterial cell comprising (a) a dimeric small molecule which comprises a first moiety known to bind a first receptor domain covalently linked to a second moiety known to bind a second receptor domain; (b) nucleotide sequences which upon transcription encode i) a first fusion protein comprising the first receptor domain, and ii) a second fusion protein comprising the second receptor domain; and (c) a reporter gene wherein expression of the reporter gene is conditioned on the proximity of the first fusion protein to the second fusion protein. The cell is also adapted for use in a method for identifying a molecule that binds to a known target in a bacterial cell from a pool of candidate molecules, and a method for identifying an unknown target receptor to which a molecule is capable of binding in a bacterial cell. Also described are compounds and kits for carrying out the methods.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:254908 USPATFULL  
TITLE: Bacterial small-molecule three-hybrid system  
INVENTOR(S): Althoff, Eric A, 526 West 122nd Street, #5C, New York, NY, UNITED STATES 10027  
Cornish, Virginia W, New York, NY, UNITED STATES  
PATENT ASSIGNEE(S): Trustees Of Columbia University In The City Of New York, New York, NY, UNITED STATES, 10027 (U.S. corporation)

|                       | NUMBER   | KIND | DATE                  |
|-----------------------|--|------|-----------------------|
| PATENT INFORMATION:   | US 2005221402  | A1   | 20051006              |
| APPLICATION INFO.:    | US 2003-512497   | A1   | 20030424 (10)         |
|                       | WO 2003-US12612  |      | 20030424              |
|                       |  |      | 20050523 PCT 371 date |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 2003-132039, filed on 24 Apr 2002, PENDING |      |                       |
| DOCUMENT TYPE:        | Utility  |      |                       |
| FILE SEGMENT:         | APPLICATION  |      |                       |
| LEGAL REPRESENTATIVE: | COOPER & DUNHAM, LLP, 1185 AVENUE OF THE AMERICAS, NEW YORK, NY, 10036, US     |      |                       |
| NUMBER OF CLAIMS:     | 37   |      |                       |
| EXEMPLARY CLAIM:      | 1  |      |                       |
| NUMBER OF DRAWINGS:   | 5 Drawing Page(s)  |      |                       |
| LINE COUNT:           | 1531   |      |                       |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 7 OF 16 USPATFULL on STN

TI Binding constructs and methods for use thereof  
AB The invention relates to novel binding domain-immunoglobulin fusion proteins that feature a binding domain for a cognate structure such as an antigen, a counterreceptor or the like, a wild-type IgG1, IGA or IgE hinge-acting region, i.e., IgE CH2, region polypeptide or a mutant IgG1 hinge region polypeptide having either zero, one or two

cysteine residues, and immunoglobulin CH2 and CH3 domains, and that are capable of ADCC and/or CDC while occurring predominantly as polypeptides that are compromised in their ability to form disulfide-linked multimers. The fusion proteins can be recombinantly produced at high expression levels. Also provided are related compositions and methods, including cell surface forms of the fusion proteins and immunotherapeutic applications of the fusion proteins and of polynucleotides encoding such fusion proteins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:157841 USPATFULL  
 TITLE: Binding constructs and methods for use thereof  
 INVENTOR(S): Ledbetter, Jeffrey A., Shoreline, WA, UNITED STATES  
 Hayden-Ledbetter, Martha, Shoreline, WA, UNITED STATES  
 Thompson, Peter A., Bellevue, WA, UNITED STATES

|                       | NUMBER  | KIND | DATE          |
|-----------------------|---|------|---------------|
| PATENT INFORMATION:   | US 2005136049   | A1   | 20050623      |
| APPLICATION INFO.:    | US 2003-627556  | A1   | 20030726 (10) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 2002-53530, filed on 17 Jan 2002, PENDING |      |               |

|                       | NUMBER   | DATE          |
|-----------------------|--|---------------|
| PRIORITY INFORMATION: | US 2001-367358P  | 20010117 (60) |
| DOCUMENT TYPE:        | Utility  |               |
| FILE SEGMENT:         | APPLICATION  |               |
| LEGAL REPRESENTATIVE: | BUCHANAN INGERSOLL, P.C., ONE OXFORD CENTRE, 301 GRANT STREET, 20TH FLOOR, PITTSBURGH, PA, 15219, US |               |
| NUMBER OF CLAIMS:     | 110  |               |
| EXEMPLARY CLAIM:      | 1  |               |
| NUMBER OF DRAWINGS:   | 75 Drawing Page(s)   |               |
| LINE COUNT:           | 19086  |               |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 8 OF 16 USPATFULL on STN

TI Adzymes and uses thereof  
 AB Disclosed is a family of novel protein constructs, useful as drugs and for other purposes, termed "adzymes," comprising an address moiety and a catalytic domain. In some types of disclosed adzymes, the address binds with a binding site on or in functional proximity to a targeted biomolecule, e.g., an extracellular targeted biomolecule, and is disposed adjacent the catalytic domain so that its affinity serves to confer a new specificity to the catalytic domain by increasing the effective local concentration of the target in the vicinity of the catalytic domain. The present invention also provides pharmaceutical compositions comprising these adzymes, methods of making adzymes, DNA's encoding adzymes or parts thereof, and methods of using adzymes, such as for treating human subjects suffering from a disease, such as a disease associated with a soluble or membrane bound molecule, e.g., an allergic or inflammatory disease.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:87403 USPATFULL  
 TITLE: Adzymes and uses thereof  
 INVENTOR(S): Afeyan, Noubar B., Lexington, MA, UNITED STATES  
 Lee, Frank D., Chestnut Hill, MA, UNITED STATES  
 Wong, Gordon G., Brookline, MA, UNITED STATES  
 Das Gupta, Ruchira, Auburndale, MA, UNITED STATES  
 Baynes, Brian, Somerville, MA, UNITED STATES

PATENT ASSIGNEE(S): COMPOUND THERAPEUTICS, INC., Waltham, MA (U.S. corporation)

|                       | NUMBER   | KIND | DATE          |
|-----------------------|--|------|---------------|
| PATENT INFORMATION:   | US 2005074865  | A1   | 20050407      |
| APPLICATION INFO.:    | US 2004-792498   | A1   | 20040302 (10) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 2003-650592, filed on 27 Aug 2003, PENDING |      |               |

|  | NUMBER   | DATE          |
|--|--|---------------|
| PRIORITY INFORMATION:                      | US 2002-406517P  | 20020827 (60) |
|  | US 2002-423754P  | 20021105 (60) |
|  | US 2002-430001P  | 20021127 (60) |
| DOCUMENT TYPE:                             | Utility  |               |
| FILE SEGMENT:                              | APPLICATION  |               |
| LEGAL REPRESENTATIVE:                      | FISH & NEAVE IP GROUP, ROPES & GRAY LLP, ONE INTERNATIONAL PLACE, BOSTON, MA, 02110-2624 |               |
| NUMBER OF CLAIMS:                          | 45   |               |
| EXEMPLARY CLAIM:                           | 1  |               |
| NUMBER OF DRAWINGS:                        | 25 Drawing Page(s)   |               |
| LINE COUNT:                                | 9195   |               |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. |  |               |

L7 ANSWER 9 OF 16 USPATFULL on STN

TI Immunoglobulin chimeric monomer-dimer hybrids

AB The invention relates to a chimeric monomer-dimer hybrid protein wherein said protein comprises a first and a second polypeptide chain, said first polypeptide chain comprising at least a portion of an immunoglobulin constant region and a biologically active molecule, and said second polypeptide chain comprising at least a portion of an immunoglobulin constant region without the biologically active molecule of the first chain. The invention also relates to methods of using and methods of making the chimeric monomer-dimer hybrid protein of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:37495 USPATFULL

TITLE: Immunoglobulin chimeric monomer-dimer hybrids

INVENTOR(S): Peters, Robert T., West Roxbury, MA, UNITED STATES  
Mezo, Adam R., Waltham, MA, UNITED STATES  
Rivera, Daniel S., Providence, RI, UNITED STATES  
Bitonti, Alan J., Acton, MA, UNITED STATES  
Stattel, James, Leominster, MA, UNITED STATES  
Low, Susan C., Pepperell, MA, UNITED STATES

|                     | NUMBER         | KIND | DATE          |
|---------------------|----------------|------|---------------|
| PATENT INFORMATION: | US 2005032174  | A1   | 20050210      |
| APPLICATION INFO.:  | US 2004-841250 | A1   | 20040506 (10) |

|                       | NUMBER   | DATE          |
|-----------------------|--|---------------|
| PRIORITY INFORMATION: | US 2003-487964P  | 20030717 (60) |
|                       | US 2004-539207P  | 20040126 (60) |
| DOCUMENT TYPE:        | Utility  |               |
| FILE SEGMENT:         | APPLICATION  |               |
| LEGAL REPRESENTATIVE: | Finnegan, Henderson, Farabow,, Garrett & Dunner, L.L.P., 1300 I Street, N.W., Washington, DC, 20005-3315 |               |
| NUMBER OF CLAIMS:     | 154  |               |



EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 27 Drawing Page(s)  
LINE COUNT: 5512  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 10 OF 16 USPATFULL on STN  
TI Methods for chemically synthesizing immunoglobulin chimeric proteins  
AB The invention provides methods of chemically synthesizing chimeric proteins comprising at least a portion of an immunoglobulin constant region and a biologically active molecule.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
ACCESSION NUMBER: 2005:31671 USPATFULL  
TITLE: Methods for chemically synthesizing immunoglobulin chimeric proteins  
INVENTOR(S): Mezo, Adam R., Waltham, MA, UNITED STATES  
Peters, Robert T., West Roxbury, MA, UNITED STATES

|                     | NUMBER         | KIND | DATE          |
|---------------------|----------------|------|---------------|
| PATENT INFORMATION: | US 2005027109  | A1   | 20050203      |
| APPLICATION INFO.:  | US 2004-842054 | A1   | 20040506 (10) |

|                       | NUMBER          | DATE          |
|-----------------------|-----------------|---------------|
| PRIORITY INFORMATION: | US 2003-469600P | 20030506 (60) |
|                       | US 2003-487964P | 20030717 (60) |
|                       | US 2004-539207P | 20040126 (60) |

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: Finnegan, Henderson, Farabow,, Garrett & Dunner,  
L.L.P., 1300 I Street, N.W., Washington, DC, 20005-3315  
NUMBER OF CLAIMS: 34  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 7 Drawing Page(s)  
LINE COUNT: 3085  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 11 OF 16 USPATFULL on STN  
TI Adzymes and uses thereof  
AB Disclosed is a family of novel protein constructs, useful as drugs and for other purposes, termed "adzymes," comprising an address moiety and a catalytic domain. In some types of disclosed adzymes, the address binds with a binding site on or in functional proximity to a targeted biomolecule, e.g., an extracellular targeted biomolecule, and is disposed adjacent the catalytic domain so that its affinity serves to confer a new specificity to the catalytic domain by increasing the effective local concentration of the target in the vicinity of the catalytic domain. The present invention also provides pharmaceutical compositions comprising these adzymes, methods of making adzymes, DNA's encoding adzymes or parts thereof, and methods of using adzymes, such as for treating human subjects suffering from a disease, such as a disease associated with a soluble or membrane bound molecule, e.g., an allergic or inflammatory disease.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
ACCESSION NUMBER: 2004:107249 USPATFULL  
TITLE: Adzymes and uses thereof  
INVENTOR(S): Afeyan, Noubar B., Lexington, MA, UNITED STATES  
Lee, Frank D., Chestnut Hill, MA, UNITED STATES  
Wong, Gordon G., Brookline, MA, UNITED STATES

Das Gupta, Ruchira, Auburndale, MA, UNITED STATES  
Baynes, Brian, Somerville, MA, UNITED STATES

|                     | NUMBER         | KIND | DATE          |
|---------------------|----------------|------|---------------|
| PATENT INFORMATION: | US 2004081648  | A1   | 20040429      |
| APPLICATION INFO.:  | US 2003-650592 | A1   | 20030827 (10) |

|  | NUMBER  | DATE          |
|--|---|---------------|
| PRIORITY INFORMATION:                      | US 2002-406517P   | 20020827 (60) |
|  | US 2002-423754P   | 20021105 (60) |
|  | US 2002-430001P   | 20021127 (60) |
| DOCUMENT TYPE:                             | Utility   |               |
| FILE SEGMENT:                              | APPLICATION   |               |
| LEGAL REPRESENTATIVE:                      | ROPES & GRAY LLP, ONE INTERNATIONAL PLACE, BOSTON, MA, 02110-2624 |               |
| NUMBER OF CLAIMS:                          | 156   |               |
| EXEMPLARY CLAIM:                           | 1   |               |
| NUMBER OF DRAWINGS:                        | 19 Drawing Page(s)  |               |
| LINE COUNT:                                | 8325  |               |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. |   |               |

L7 ANSWER 12 OF 16 USPATFULL on STN

TI Adzymes and uses thereof

AB Disclosed is a family of novel protein constructs, useful as drugs and for other purposes, termed "adzymes," comprising an address moiety and a catalytic domain. In some types of disclosed adzymes, the address binds with a binding site on or in functional proximity to a targeted biomolecule, e.g., an extracellular targeted biomolecule, and is disposed adjacent the catalytic domain so that its affinity serves to confer a new specificity to the catalytic domain by increasing the effective local concentration of the target in the vicinity of the catalytic domain. The present invention also provides pharmaceutical compositions comprising these adzymes, methods of making adzymes, DNA's encoding adzymes or parts thereof, and methods of using adzymes, such as for treating human subjects suffering from a disease, such as a disease associated with a soluble or membrane bound molecule, e.g., an allergic or inflammatory disease.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:107248 USPATFULL  
TITLE: Adzymes and uses thereof  
INVENTOR(S): Afeyan, Noubar B., Lexington, MA, UNITED STATES  
Lee, Frank D., Chestnut Hill, MA, UNITED STATES  
Wong, Gordon G., Brookline, MA, UNITED STATES  
DasGupta, Ruchira, Auburndale, MA, UNITED STATES  
Baynes, Brian, Somerville, MA, UNITED STATES

|                     | NUMBER         | KIND | DATE          |
|---------------------|----------------|------|---------------|
| PATENT INFORMATION: | US 2004081647  | A1   | 20040429      |
| APPLICATION INFO.:  | US 2003-650591 | A1   | 20030827 (10) |

|                       | NUMBER          | DATE          |
|-----------------------|-----------------|---------------|
| PRIORITY INFORMATION: | US 2002-406517P | 20020827 (60) |
|                       | US 2002-423754P | 20021105 (60) |
|                       | US 2002-430001P | 20021127 (60) |
| DOCUMENT TYPE:        | Utility         |               |
| FILE SEGMENT:         | APPLICATION     |               |

LEGAL REPRESENTATIVE: ROPES & GRAY LLP, ONE INTERNATIONAL PLACE, BOSTON, MA,  
02110-2624  
NUMBER OF CLAIMS: 41  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 19 Drawing Page(s)  
LINE COUNT: 7919  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 13 OF 16 USPATFULL on STN

TI Bacterial small-molecule three-hybrid system

AB A transgenic bacterial cell comprising

(a) a dimeric small molecule which comprises a first moiety known to bind a first receptor domain covalently linked to a second moiety known to bind a second receptor domain;

(b) nucleotide sequences which upon transcription encode

i) a first fusion protein comprising the first receptor domain, and

ii) a second fusion protein comprising the second receptor domain; and

(c) a reporter gene wherein expression of the reporter gene is conditioned on the proximity of the first fusion protein to the second fusion protein. The cell is also adapted for use in a method for identifying a molecule that binds to a known target in a bacterial cell from a pool of candidate molecules, and a method for identifying an unknown target receptor to which a molecule is capable of binding in a bacterial cell. Also described are compounds and kits for carrying out the methods.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:288713 USPATFULL

TITLE: Bacterial small-molecule three-hybrid system

INVENTOR(S): Althoff, Eric A., New York, NY, UNITED STATES  
Cornish, Virginia W., New York, NY, UNITED STATES

|                       | NUMBER  | KIND | DATE          |
|-----------------------|---|------|---------------|
| PATENT INFORMATION:   | US 2003203471   | A1   | 20031030      |
|                       | US 7083918  | B2   | 20060801      |
| APPLICATION INFO.:    | US 2002-132039  | A1   | 20020424 (10) |
| DOCUMENT TYPE:        | Utility   |      |               |
| FILE SEGMENT:         | APPLICATION   |      |               |
| LEGAL REPRESENTATIVE: | Cooper & Dunham LLP, 1185 Avenue of the Americas, New York, NY, 10036 |      |               |
| NUMBER OF CLAIMS:     | 82  |      |               |
| EXEMPLARY CLAIM:      | 1   |      |               |
| NUMBER OF DRAWINGS:   | 5 Drawing Page(s)   |      |               |
| LINE COUNT:           | 1786  |      |               |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 14 OF 16 USPATFULL on STN

TI In vivo protein screen based on enzyme-assisted chemically induced dimerization ("CID")

AB A method for identifying which protein from a pool of candidate proteins catalyzes in a cell a bond forming reaction between a first substrate and a second substrate, comprising:

(a) providing a dimeric small molecule which comprises a known moiety that binds a known receptor domain covalently linked with a moiety that contains the first substrate;

(b) introducing the dimeric molecule into a cell which comprises

i) a first fusion protein comprising the known receptor domain,

ii) a second fusion protein comprising the second substrate,

iii) a protein from the pool of candidate proteins, and

iv) a reporter gene wherein expression of the reporter gene is conditioned on the proximity of the first fusion protein to the second fusion protein;

(c) permitting the dimeric molecule to bind to the first fusion protein and to enzymatically form a bond with the second fusion protein so as to activate the expression of the reporter gene;

(d) selecting which cell expresses the reporter gene; and

(e) identifying the protein that catalyzes the bond formation reaction in the cell between the first substrate and the second substrate. The method is also adapted to identify which substrate from a pool of candidate substrates is selected in a cell by a known enzyme for a bond forming reaction between the substrate and a known amino acid. Also, cells, compounds and kits for carrying out the methods.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:200800 USPATFULL

TITLE: In vivo protein screen based on enzyme-assisted chemically induced dimerization ("CID")

INVENTOR(S): Kopytek, Stephan, New York, NY, UNITED STATES  
Cornish, Virginia, New York, NY, UNITED STATES

|                     | NUMBER        | KIND | DATE          |
|---------------------|---------------|------|---------------|
| PATENT INFORMATION: | US 2003138785 | A1   | 20030724      |
| APPLICATION INFO.:  | US 2002-84388 | A1   | 20020225 (10) |

|                       | NUMBER  | DATE          |
|-----------------------|---|---------------|
| PRIORITY INFORMATION: | US 2001-343467P   | 20011221 (60) |
| DOCUMENT TYPE:        | Utility   |               |
| FILE SEGMENT:         | APPLICATION   |               |
| LEGAL REPRESENTATIVE: | Cooper & Dunham LLP, 1185 Avenue of the Americas, New York, NY, 10036 |               |
| NUMBER OF CLAIMS:     | 83  |               |
| EXEMPLARY CLAIM:      | 1   |               |
| NUMBER OF DRAWINGS:   | 11 Drawing Page(s)  |               |
| LINE COUNT:           | 1286  |               |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 15 OF 16 USPATFULL on STN

TI Binding and catalysis screen for high throughput determination of protein function using chemical inducers of dimerization

AB A method for screening a cDNA library by identifying the expressed protein target, comprising:

- (a) providing a screening molecule comprising a methotrexate moiety or an analog of methotrexate covalently bonded to a ligand which has a known specificity;
- (b) introducing the screening molecule into a cell which expresses a first fusion protein comprising a binding domain capable of binding methotrexate, a second fusion protein comprising the expressed unknown protein target, and a reporter gene wherein expression of the reporter gene is conditioned on the proximity of the first fusion protein to the second fusion protein;
- (c) permitting the screening molecule to bind to the first fusion protein and to the second fusion protein so as to activate the expression of the reporter gene;
- (d) selecting which cell expresses the reporter gene; and
- (e) identifying the unknown protein target and the corresponding cDNA.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:301193 USPATFULL  
 TITLE: Binding and catalysis screen for high throughput determination of protein function using chemical inducers of dimerization  
 INVENTOR(S): Cornish, Virginia W., New York, NY, UNITED STATES

|                       | NUMBER   | KIND | DATE         |
|-----------------------|--|------|--------------|
| PATENT INFORMATION:   | US 2002168737  | A1   | 20021114     |
| APPLICATION INFO.:    | US 2001-768474   | A1   | 20010124 (9) |
| DOCUMENT TYPE:        | Utility  |      |              |
| FILE SEGMENT:         | APPLICATION  |      |              |
| LEGAL REPRESENTATIVE: | John P. White, Cooper & Dunham LLP, 1185 Avenue of the Americas, New York, NY, 10036 |      |              |
| NUMBER OF CLAIMS:     | 19   |      |              |
| EXEMPLARY CLAIM:      | 1  |      |              |
| NUMBER OF DRAWINGS:   | 25 Drawing Page(s)   |      |              |
| LINE COUNT:           | 1784   |      |              |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 16 OF 16 USPATFULL on STN  
 TI Covalent chemical inducers of protein dimerization and their uses in high throughput binding screens  
 AB Described are compounds having the formula:

H1-Y-H2

where H1 is a substrate capable of selectively binding to a first receptor; where H2 is a substrate capable of selectively binding to and selectively forming a covalent bond with a second receptor; and wherein Y is a moiety providing a covalent linkage between H1 and H2, which may be present or absent, and when absent, H1 is covalently linked to H2. Also described are uses of the compounds for in vivo screening of compounds and proteins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:301142 USPATFULL  
 TITLE: Covalent chemical inducers of protein dimerization and their uses in high throughput binding screens

INVENTOR(S): Cornish, Virginia W., New York, NY, UNITED STATES

|  | NUMBER   | KIND | DATE          |
|--|--|------|---------------|
| PATENT INFORMATION:                        | US 2002168685  | A1   | 20021114      |
| APPLICATION INFO.:                         | US 2002-56874  | A1   | 20020124 (10) |
| RELATED APPLN. INFO.:                      | Continuation-in-part of Ser. No. US 2001-768474, filed on 24 Jan 2001, PENDING       |      |               |
| DOCUMENT TYPE:                             | Utility  |      |               |
| FILE SEGMENT:                              | APPLICATION  |      |               |
| LEGAL REPRESENTATIVE:                      | John P. White, Cooper & Dunham LLP, 1185 Avenue of the Americas, New York, NY, 10036 |      |               |
| NUMBER OF CLAIMS:                          | 54   |      |               |
| EXEMPLARY CLAIM:                           | 1  |      |               |
| NUMBER OF DRAWINGS:                        | 24 Drawing Page(s)   |      |               |
| LINE COUNT:                                | 1954   |      |               |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. |  |      |               |

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